

ABSTRACT

An integrated electrical connector with one or more semiconductor dice coupled to a plurality of signal blades provided in accordance with the principles of this invention. Incoming signals are processed by one or more semiconductor dice for applications such as reducing transmission line effect attributable to noise, cross-talk, signal attenuation, and other signal degradation effects before being re-transmitted as reconditioned outgoing signals as a set of corresponding output signals from the integrated connector via a plurality of signal and shield blades. Providing one or more semiconductor dice in the connector allows degradation from high-speed transmission line paths along a printed circuit be segmented and corrected at the site of these integrated electrical connectors before being retransmitted to the next circuit board or device along the signal path.